SPECIFICATION

			DIGITALMASTER L-758CINE	DIGITALMASTER L-758DR / L-758D
TYPE			Digital light meter for ambient and flash light	Digital light meter for ambient and flash light
Light receiving method	Incident light	Swivel Head	270° (Horizontal)	270° (Horizontal)
		Lumidisc	Retractable	Retractable
	Reflected light	Switching of incident/reflected	One-touch simple switching	One-touch simple switching
		Light receiving angle	1 degree	1 degree
		Viewfinder (Optional)	–	–
	Flash light	Multiple flash mode	○(up to ∞ flash reading)	○(up to ∞ flash reading)
		Cordless/cord-in mode	○	○
		Radio Triggering	Yes(optional)	Yes (L-758DR:built-in, L-758D:optional)
Measurement range (ISO100)	Incident light	Ambient	EV -2 to EV 22.9	EV -2 to EV 22.9
		Flash	F0.5 to F161.2	F0.5 to F161.2
	Reflected light (built-in)	Ambient	EV 1 to EV 24.4	EV 1 to EV 24.4
		Flash	F2.0 to F161.2	F2.0 to F161.2
Illuminance			0.63 to190,000 lux	–
			0.10 to180,000 foot-candle	–
Luminance			0.25 to190,000 candle/m²	–
			0.07 to190,000 foot-lambert	–
Setting range	Film ISO	ISO	ISO 3 to 8000 (in 1/3 steps)	ISO 3 to 8000 (in 1/3 steps)
		Second ISO	ISO 3 to 8000 (in 1/3 steps)	ISO 3 to 8000 (in 1/3 steps)
	Ambient light	Aperture Display	F0.5 to F161	F0.5 to F161
		Aperture Step	in 1, 1/2 or 1/3 steps	in 1, 1/2 or 1/3 steps
		Shutter speed Display	30 min. to 1/8000 sec. (in 1, 1/2 or 1/3 stop) also 1/200, 1/400	30 min. to 1/8000 sec. (in 1, 1/2 or 1/3 stop) also 1/200, 1/400
		Shutter speed Step	in 1, 1/2 or 1/3 steps	in 1, 1/2 or 1/3 steps
		Cine speed Display	1 to 1,000 frames per second (43 cine speeds)	2 to 360 frames per second (28 cine speeds)
	Flash light	Shutter speed Display	30 min. to 1/1000 sec. 1/75, 1/80, 1/90, 1/100, 1/200, 1/400	30 min. to 1/1000 sec. 1/75, 1/80, 1/90, 1/100, 1/200, 1/400
		Shutter speed Step	in 1, 1/2 or 1/3 steps	in 1, 1/2 or 1/3 steps
Display range	Film	ISO	ISO 3 to 8000 (in 1/3 steps)	ISO 3 to 8000 (in 1/3 steps)
		Second ISO	ISO 3 to 8000 (in 1/3 steps)	ISO 3 to 8000 (in 1/3 steps)
	Ambient light	Aperture Integral value	F0.5 to F161	F0.5 to F161
		Aperture Step	in 1, 1/2 or 1/3 steps	in 1, 1/2 or 1/3 steps
		Aperture Decimal	0 to 9 (in 1/10 steps)	0 to 9 (in 1/10 steps)
		Aperture Analog scale	F0.5 to F45 (in 1/3 steps)	F0.5 to F45 (in 1/3 steps)
		Shutter speed Integral value	30 min. to 1/8000 sec. 1/200, 1/400	30 min. to 1/8000 sec. 1/200, 1/400
		Shutter speed Step	in 1, 1/2 or 1/3 steps	in 1, 1/2 or 1/3 steps
		Shutter speed Analog scale	–	4 sec to 1/4000 sec (in 1/2 steps)
		Cine speed Display	1 to 1,000 frames per second (43 cine speeds)	2 to 360 frames per second (28 cine speeds)
		EV Display	EV -9.9 to 46.6 (1/10 steps)	EV -9.9 to 46.6 (1/10 steps)
		EV Analog scale	-7EV to +7EV	-7EV to +7EV
	Flash light	Aperture Integral value	F0.5 to F161	F0.5 to F161
		Aperture Decimal	0 to 9 (in 1/10 steps)	0 to 9 (in 1/10 steps)
		Aperture Step	in 1, 1/2 or 1/3 steps	in 1, 1/2 or 1/3 steps
		Shutter speed Display	30 min. to 1/1000 sec. 1/75, 1/80, 1/90, 1/100, 1/200, 1/400	30 min. to 1/1000 sec. 1/75, 1/80, 1/90, 1/100, 1/200, 1/400
		Flash analyzing function Display	0 to 100% (in 10% steps)	0 to 100% (in 10% steps)
Repeat accuracy			+/-0.1 EV	+/-0.1 EV
Calibration constant	Incident light		Lumisphere C=340 Lumidisc C=250	Lumisphere C=340 Lumidisc C=250
	Reflected light		K=12.5	K=12.5
Operating temperature range			-10 to 50° C	-10 to 50° C
Storage temperature range			-20 to 60° C	-20 to 60° C
Light receptor element			2-Silicon photo diodes (incident and reflected)	2-Silicon photo diodes (incident and reflected)
Battery used			1xCR123A battery (lithium dry cell)	1xCR123A battery (lithium dry cell)
Dimensions			90 w × 170 h × 48 d mm	90 w × 170 h × 48 d mm
Weight			268 g (with battery)	268 g (with battery)
Standard accessories supplied			Soft case, Strap, Lens cap, USB-cable, Synchro terminal cap, CR-123A lithium battery x 1, Quick guide, Sticker for Multi-key Operation and CS, Software in CD-ROM	Soft case, Strap, Lens cap, USB-cable, Synchro terminal cap, CR-123A lithium battery x 1, Quick guide, Sticker for Multi-key Operation and CS, Software in CD-ROM
Main functions			Illuminance ·Luminance ·Shutter angle setting ·Filter factor compensation ·Wide range of cine speed setting ·Exposure Profiling EV scale·17 items of custom settings·Latitude warning·USP port·Flash/ambient analyzing function ·Full, 1/2, 1/3 step selectable readings ·Nine memory banks for aperture value ·Average function ·Contrast function ·Flash Cumulative mode ·Shutter speed priority mode ·Aperture priority mode ·EV (Exposure Value) mode·All weather design ·Automatic backlight ·Independent exposure compensations for incident and reflected light ·Setting two ISO sensitivity ·Auto power off ·Battery power Indicator ·Jog wheel Lock ·Diopter adjustment ·Tripod socket	Exposure Profiling ·EV scale ·14 items of custom settings ·Latitude warning ·USP port ·Flash/ambient analyzing function ·Full, 1/2, 1/3 step selectable readings ·Nine memory banks for aperture value ·Average function ·Contrast function ·Flash Cumulative mode ·Shutter speed priority mode ·Aperture priority mode ·EV (Exposure Value) mode ·All weather design ·Automatic backlight ·Independent exposure compensations for incident and reflected light ·Setting two ISO sensitivity ·Auto power off ·Battery power Indicator ·Jog wheel Lock ·Diopter adjustment ·Tripod socket

OPTIONAL ACCESSORIES

Exposure Profile Target

This is a Scale Test target for Exposure Profiling and meter calibration (The size is 290 x 180mm = 11" x 7"). One side is nine gray patches including black and white, and the other side is 18% gray card for digital camera white balancing and spot metering.
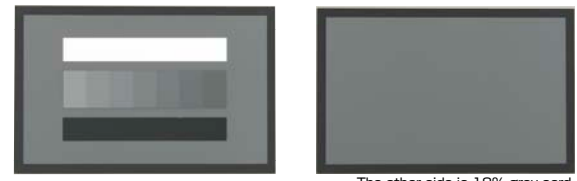
The other side is 18% gray card

Step Up Ring (Lens Hood)

The Step Up Ring makes it possible to mount step rings and filters of other manufacturers (from 30.5mm to 40.5mm). This simplifies the setting of exposure without the troublesome correction calculation of PL filters, etc. It can also be used as a Lens Hood to protect the spot lens from scratching and avoids lens glare which could cause incorrect light measurements.

SEKONIC STEP UP RING 30.5mm→40.5mm

18% Gray Card

Convenient, pocket size 18% gray card with cover (110mm x 102mm; 4 1/4" x 3 1/2"), folds to 57mm x 102mm; 2 3/4" x 4 3/4"
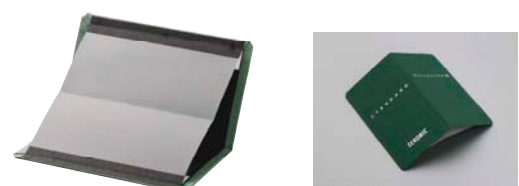
Synchro Cord

Tis is a five meter long cord with three plugs. An exposure meter, a camera, and a electronic flash can be all connected at the same -time without necessity to plug and unplug the synchro cord.

Radio Triggering Module RT-32FCC/CE
(optional for L-758D and L-758CINE only)

The Radio Transmitter Module plugs directly into a built-in compartment behind the battery door, and triggers the electronic flash units wirelessly as the meter takes a measurement.
Channel ID's are easily selected through the meter's built-in software. (CH1 to 16 Single Remote triggering, CH17 to 32 Remote control "Quad Triggering Zone"), compatible with PocketWizard® Digital radio triggering systems.

SEKONIC RT-32FCC MODULE

SEKONIC RT-32CE MODULE

Features and specifications are subject to change without notice.

Catalog#:C0691P100-T Printed in Japan

DIGITALMASTER L-758DR/L-758D/L-758Cine
Digital Exposure Control Starts here…

World's first Multi-function light meter with Exposure Profiling and Wireless Triggering.

DIGITALMASTER L-758DR/L-758D/L-758Cine

Exposure Profile
Since no two digital cameras, camera and light meter's or different types of film are likely to agree on the same exposure, they need to be calibrated. The L-758DR (L-758D/L-758CINE) can be programmed to match the sensitivity of film or digital camera sensor for perfect exposure control via Data Transfer Software and USB connectivity.

Real Time information in the Palm of your hand
The Dynamic Range and Clipping points of a exposure profiled digital camera can be stored, recalled and displayed on the new enhanced analog scale. Exposure latitude warning indicators along with an adjustable Mid-Tone setting provide the necessary information and control for digital and film exposure perfection.
Up to three different camera or film exposure profiles can be programmed and they can be recalled by simply pressing two buttons on the meter. Independent calibration setting for Flash/Ambient, Reflected/Incident can be stored and recalled quickly and easily.

Wireless Flash Triggering Built-in
The L-758DR includes a PocketWizard wireless triggering radio transmitter built-in. Compatible with PocketWizard® Classic, Plus, Plus II, MAX, MultiMAX and Wireless Freedom system products, it simultaneously triggers and measures remote flash units. With it's Selective Quad Triggering control, up to four zones of electronic flash units can be individually selected and measured for optimum exposure control and light balancing. The meter provides a convenient solution for triggering, measuring and balancing flash exposures and it can even trigger cameras with electronic shutter releases.

Know your limits before you take the shot
Every digital camera or film has it's own limited tonal range that it can capture. This tonal range is commonly referred to as "Dynamic Range", and it varies depending on the digital camera's sensor, processor, type of file compress (Jpeg, Tiff, Raw) or characteristic of a specific type of film.
The DIGITALMASTER L-758 series can store, recall and display the dynamic range of a particular digital camera or film (from a test target) and warning indicators alert the photographer when the exposure is at the edge of the dynamic range. Clipping points can also be set and programed to alert the photographer that the exposure has exceeded the range in either the highlight or shadow area. Up to three different camera exposure profiles or film types can be store at the same time and easily recalled.

Exposure Profiling Advantages

Using a camera's built-in TTL light meter, instead of a hand-held meter, will commonly cause over or under exposed areas in a high contrast scene. In this image, the meter
was fooled by the contrast of the scene and overexposed the window light causing possible blooming and little or no detail in the highlights.
Using a conventional light meter would not have helped since they can't be programmed for a digital camera or type of film's exposure profile, dynamic range or clipping point.

Using a Sekonic L-758 series light meter that has been programmed for the camera's Exposure Profile, it was possible to determine if the highlights and shadows were within the dynamic range of the camera sensor.
If the highlights or shadows are out of the range (of the digital camera or type of film), warning indicators will blick on the LCD analog scale and the photographer can modify the lighting situation to open the shadows or hold back the highlights in this image.

4 Easy Steps to Exposure Profiling

Shooting the Test Target
Using the photographic equipment that you usually work with; cameras, lenses, lighting, etc., make 7 exposures under the desired lighting conditions. Using the light meter in the desired mode (incident/reflected) as the starting exposure point, bracket (+/- 7EV) to determine the variation between the camera and light meters sensitivity.

Evaluating the Test Exposures
Evaluate the test exposure with image application software using the RGB numeric value pointer tool (eye drop or pointer) and read the RGB values (using a 5x5 pixel sampling). Exposure compensation values between the camera and light meter, Dynamic range and Clipping points can all be acquired by evaluating the test exposure

Entering the Evaluation Data into Data Transfer Software
Enter the exposure value, Dynamic Range and Clipping point data into Sekonic's Data Transfer Software. The program that is included with the L-758DR (L-758D/L-758CINE) automatically calculates the correct compensation settings and sets the Dynamic Range and Clipping points, ready to be uploaded to the meter. It is also possible to enter exposure profile data manually directly into the L-758DR (L-758D/L-758CINE) without the use of Data Transfer Software.   (For details, please refer to the operating manual)

Transferring Exposure Profile data to the Light Meter
All exposure profile data that has been calculated by Data Transfer Software can easily be transferred to the light meter via a USB cable (included with the L-758DR/ L-758D/L-758CINE). Once connected to the meter and a PC or MAC computer, data transfer is a mouse click away.

World's First Multi-function Light Meter with Exposure Profiling and Wireless Triggering. DIGITALMASTER L-758 Series

The DIGITALMASTER L-758 Series was designed from its inception to offer today's digital and film shooter with repeatable precision, accurate measurement and digital exposure control that is necessary for today's photographer.

It offers cutting edge features never before available in any light meter and redefines what a light meter is and why it's a critical tool for digital exposure control.

Measuring functions and features

① Exposure Profiling
Up to three digital camera exposure profiles can be stored and recalled. Once selected, the L-758 series can recall an exposure profile (from a digital camera or film) and display the dynamic range and clipping point on the aperture scale or EV scale. Any compensation value that is required to match the camera sensitivity is loaded into the appropriate measuring mode and automatically applied to all measurement's.

② Data Transfer Software
The L-758 series light meters have a USB port built-in to connect the light meter to a computer (Windows or MAC) with a USB cable. Exposure Profile Data is exchanged between the computer and the light meter using the Data Transfer Software, which enable the photographer to input the calibration compensation data directly in to the light meters programable memory chip.

③ Mid.Tone Adjustment Mode

④ Built-in Radio Transmitter (L-758DR)

⑤ 1 Degree Spot with Digital Display

⑥ Full, 1/2 or 1/3 Step Selectable Readings

⑦ Flash Analyzing Function

⑧ Memorize Up to Nine Readings
In either aperture or shutter speed priority, it can memorize up to nine readings in incident and spot (reflected) mode simultaneously. Readings are on the aperture or EV scale.

⑨ Step Up Ring (Lens Hood)
The step up ring makes it possible to attach different diameter filters using the appropriate step-up adapters in front of the 1°spot lens (up to 40.5mm filter thread).
It also acts as a lens hood preventing erroneous light measurement caused by lens glare and flare.

⑩ Custom Setting
The Custom Setting mode provides a quick and easy setup of individual meter preferences. L-758DR/D have14 settings and the L-758CINE has 17 settings.

Other Functions

- EV scale
- Average
- Multiple Flash (Cumulative)
- Aperture Priority
- Shutter Speed Priority
- EV (Exposure Value)
- All Weather Design
- Auto Back Light
- Retractable Lumisphere
- Exposure Compensation in Incident and Reflected independently
- Dual ISO (ISO1 and ISO2)
- Auto Power Off
- Battery Indicator
- CINE speed (f/s)
- Tripod Thread
- Dioptor Adjustment
- Jog Wheel Lock

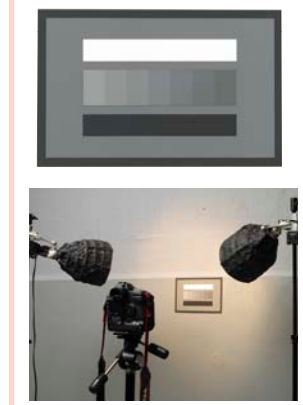## Special Features for Cine and Video
DIGITALMASTER L-758CINE

L-758CINE Features

① Aperture Scale of F0.5 to F64 in 1/3 stop increments.

② Wide Range of CINE Speed from 1 to 1000 f/s

③ Filter Factor Compensation
When using L-758CINE for cine/video exposures, it is possible to set 7 different frequently used types of filters. (Kodak Wratten Filters)

④ Shutter Angle settings are available from 1° to 10° in 1° increments, 15° to 270 in 5° increments, as well as 12°, 17°, 22°, 144° and 172°.

⑤ Illuminance and Luminance
It is possible to display Lux, Foot-Candle, Cd/m2 and Foot-Lambert.

Exposure Profiling

With it's unique exposure profiling capabilities, the DIGITALMASTER L-758 series is the only light meter that can compensate and be calibrated to the sensitivity of your D-SLR, digital back or favorite film. Exposure latitude warning indicator, alert the photographers when the lighting situation is exceeding the dynamic range of the camera or film before the image is captured. To ensure repeatable accurate and consistent results for tonal range and digital exposure or film control, put the power of control in the palm of your hand, DIGITALMASTER.

STEP 1
Photograph the Exposure Profiling Target (optional) with your camera, lighting (available or flash) and measuring method (incident or reflected light)

STEP 2
Analyze the Exposure Profile Target with image-editing software, and input the data to Data Transfer Software.
After input, connect PC and light meter via USB cable to transfer the data.

STEP 3
Profiles can be stored and recalled. Setting the L-758DR to perfectly match specific digital cameras sensitivity is quickly done by selecting one of the camera memory modes (camera 1, camera 2 or camera 3).

CAMERA 1　Camera1 :Latitude Warning on EV scale

CAMERA 2　Camera2: Aperture scale in Cord Flash mode with "Inside range" display of dynamic range and clipping point

CAMERA 3　Camera3: High-end digital back with "Outside range" display of dynamic range and clipping point.

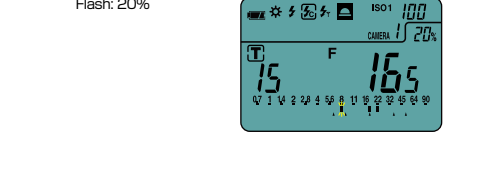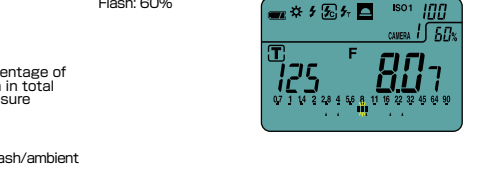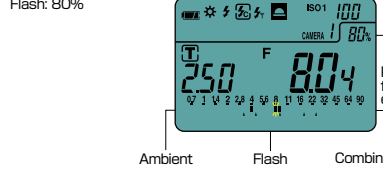## Up to nine measured values can be memorized in both Incident and Reflected modes Independently or Combined
L-758 series can memorize measured values in both incident and reflected modes independently or combined. When the memorized values are combined it is possible to take a mid-tone measurement using the Lumisphere in incident mode, than take a spot highlight, and shadow measurement by simply switching to reflected measuring mode. Highlight and shadow tones can be measured and quickly viewed to determine if there are within the Dynamic range or Clipping points of the digital camera or type of film being used. In addition, the Mid.Tone value can be shifting to adjust the highlight or shadow to be within the range required.

Mid.Tone F5.6s

Measure and memorize the Highlight F16o

Measure and memorize the Shadow F2.0³
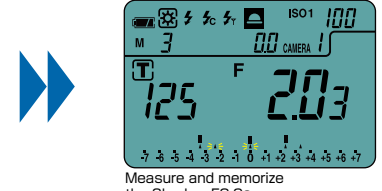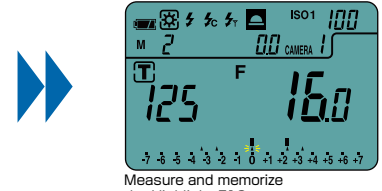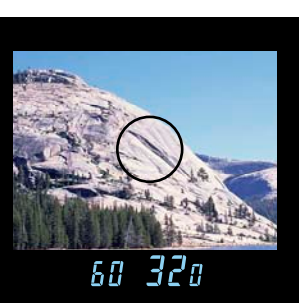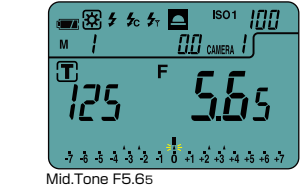
1° Spot with Digital Display
The rectangular 1°spot viewfinder displays f-stops, shutter speed, percentage of flash and much more with an EL (Electronic-Luminescent) digital display.
It can instantly be switched from incident to spot measurement mode. With its super sensitive sensor, the L-758 series can measure the reflected flash output down to an amazing f/2.0 and ambient measurements as low as EV1.
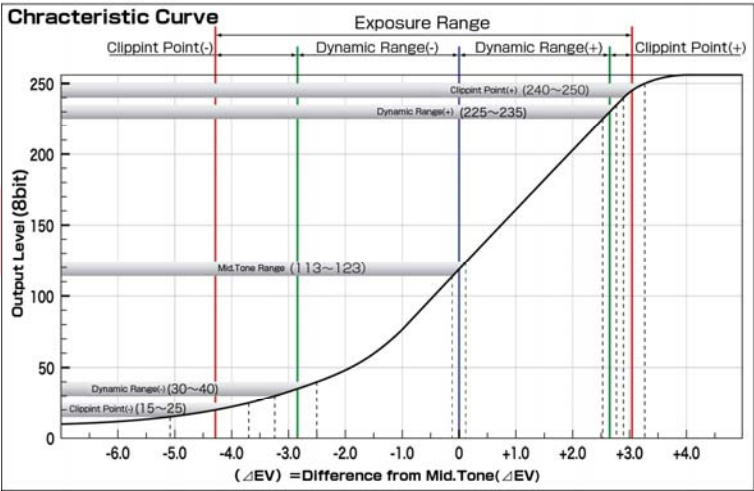
Flash Analyzing Function
In all flash modes, the L-758 series simultaneously reads both flash and ambient light automatically in order to analyze and display the exposure data in 3 convenient ways:
1.Combined readings of flash and ambient
2.Percentage of flash in the total exposure
3.Simultaneous display of flash, ambient and combined readings on the analog scale.

Flash: 80%

Flash: 60%

Flash: 20%

Percentage of flash in total exposure

Ambient　Flash　Combined flash/ambient

Data Transfer Software
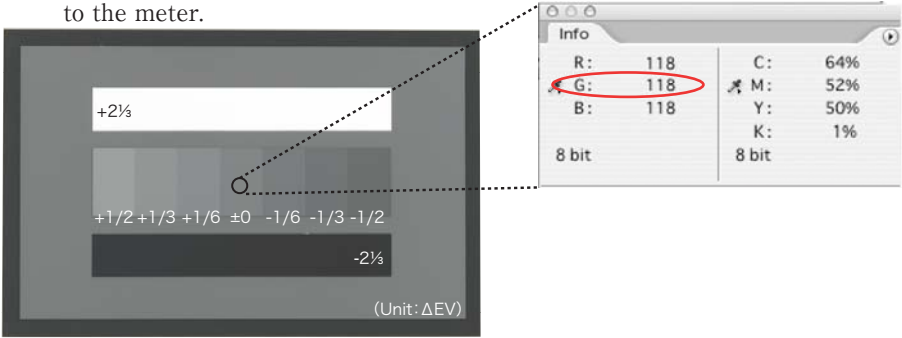## Digital Camera Exposure Profiling

Dynamic Range

The Dynamic Range of a digital camera can be different due to it's unique camera sensor, file format (Tiff, JPEG, RAW,etc.), selected ISO and more. Knowing the limits of the digital camera (or film) is essential in exposure control. The graph to the right shows the Latitude or Dynamic range of a particular digital camera (or film), as well as the Clipping points (where the exposure exceeds the dynamic range of the sensor or film). Utilizing the L-758 series test target and Data Transfer Software, up to three digital camera's (or film) dynamic range and clipping points can be programmed into the L-758 series light meter.

Exposure Profiles can be stored, recalled and displayed with the DIGITALMASTER L-758 Series light meter. Exposure compensation is automaticaly applied to all ISO settings and measuring modes. In addition, the Dynamic range and Clipping points are displayed on the analog scale. Exposure Latitude warning indicators alert the photographer when the exposure exceeds the set Dynamic or Clipping point range.

Chracteristic Curve

Exposure Range
- Clippint Point(-)
- Dynamic Range(-)
- Dynamic Range(+)
- Clippint Point(+)

Clippint Point(+) (240~250)
Dynamic Range(+) (225~235)
Mid.Tone Range (113~123)
Dynamic Range(-) (30~40)
Clippint Point(-) (15~25)

Output Level (8bit)

(⊿EV) = Difference from Mid.Tone (⊿EV)

Photographed by a Camera with Narrow Exposure Range

Photographed by a Camera with Normal Exposure Range

Photographed by a Camera with Wide Exposure Range

Shooting the Test Target

Using the photographic equipment that you usually work with; cameras, lenses, lighting, etc., make 7 exposures under the desired lighting conditions (flash, ambient, artificial lighting). Using the light meter in the desired mode (incident/reflected and flash/ambient) as the starting exposure point, bracket (+/- 7EV) to determine the variation between the camera and light meter's sensitivity. Evaluate the exposures using image application software and enter the data into the Data Transfer Software for data calculation and transfer to the light meter.

Test Target Evaluation
(Acquiring the Compensation Value, Dynamic Range and Clipping Point)

Starting with the standard exposure (recommended by the light meter) evaluate the test target patches, using a image application software. Find the patch that has the proper 18% gray exposure value (+/- 118 RGB) and input the correct exposure data into Data Transfer Software. In addition, find the Dynamic range and Clipping point data and input the exposure data into the Data Transfer Software program. The Data Transfer Software program will calculate the compensation value between the camera and the DIGITALMASTER L-758 series light meter and transfer the data directly to the meter.
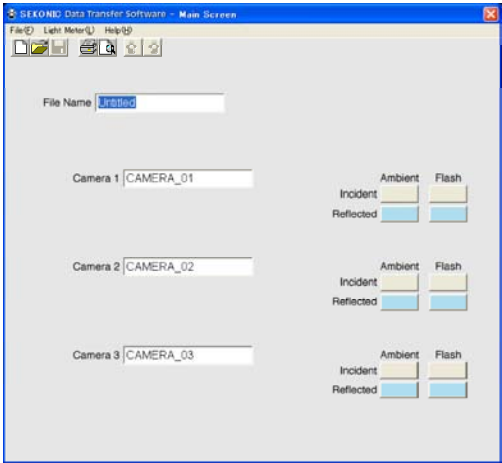
Info

R:	118	C:	64%
G:	118	M:	52%
B:	118	Y:	50%
8 bit		K:	1%
		8 bit	

+2⅓

+1/2 +1/3 +1/6 ±0 -1/6 -1/3 -1/2

-2⅓

(Unit: ⊿EV)

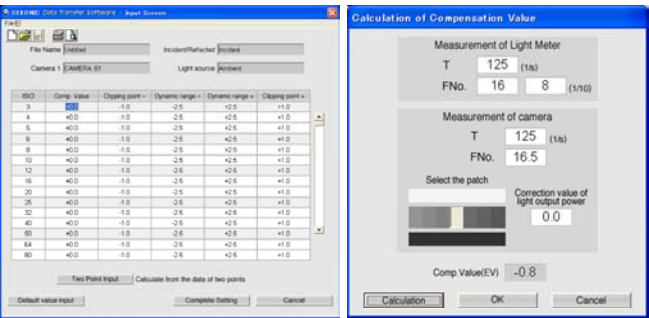|	Level	Tolerance
Clipping Point (-)	20	15~25
Dynamic Range (-)	35	30~40
Mid.Tone (Compensation Value)	118	113~123
Dynamic Range (+)	230	225~235
Clipping Point (+)	245	240~250

*The Dynamic range and Clipping point settings mentioned above are the value that are recommended by Sekonic. You may have other standards or needs that require the use of different settings. Data Transfer Software can accommodate custom settings for compensation, Dynamic range and Clipping points.

Data Transfer Software

Data Transfer Software is an application software that calculates and transfers the data (Compensation value, Dynamic range and Clipping point) from a computer (Windows or MAC), to the DIGITALMASTER L-758 series light meter.

Up to three cameras (Camera 1, Camera 2 and Camera 3) or types of film can be stored and recalled with a touch of a button on the light meter. In addition, two light sources (Ambient or Flash) and two measuring modes (Incident or Reflected) can be set within each camera or film setting (Camera 1, 2 or 3). ISO sensitivity (from 3 to 8000) and the Compensation value, Dynamic range and Clipping point for each ISO setting is automatically calculated and stored for easy access within the light meter. With Data Transfer Software and the DIGITALMASTER L-758 series light meter, up to 2040 specific data entries are easily input to the light meter for storage, recall and display in real time.

Main Screen

Data Input

Data Transfer Software incorporates a fast and easy exposure calculator. Compensation value, Dynamic range and Clipping points are calculated by simply entering the exposure settings of the light meter and camera, and selecting the correct test target patch within the software. With the Data Transfer Software Two Point Calculation mode, setting the calculation values for all ISO's (ISO3 to 8000) is quick and easy.

Input Screen

Calculation Screen

Transfer the data via USB from the computer to the light meter.

Connect the USB cable to the USB port (on the side of the light meter) and the other end to the USB port (on the computer) to transfer the computer data to the light meter.

While transferring the data, the USB icon blinks on the connected light meter's LCD screen to confirm that the data transfer is in progress and the meter and computer are correctly connection.It is also possible to transfer data from the light meter to the computer.

Data Transfer Software System Requirements

	Windows®	Macintosh
OS	Windows® 2000 ※1 Windows® XP ※2	Mac OS 10.3 or higher
Computer	With USB port and compatible operating system pre-installed ※3	With USB port and compatible operating system pre-installed
CPU	1GHz Pentium III-class PC or higher	1GHz Power PC G4 or higher
RAM	Minimum 256MB (512MB or larger recommended)	256MB以上（512MB以上を推奨）
Hard Drive Disc Space	100MB or more	100MB or more
Display	Screen resolution: 1024 x 768 pixels or moreColor quality Medium (16 bit) or more	Screen resolution: 1024 x 768 pixels or moreColor quality Medium (16 bit) or more

※1 Professional Edition SP4 or later. Windows®2000 Server not supported.
※2 Home Edition/Professional Edition SP1 or later
※3 Please note the following points.
・OS is to be pre-installed.
・Some computers or structures may not work properly.
・Upgraded machines, special modified systems or emulators (including Virtual PC, etc.) may not be supported.
・Connection via USB hub not supported
・Hard drive for CD-ROM needed to install software.